

CLAIMS

We claim:

1. A pigmented optical body comprising at least one layer of a thermoplastic
5 polymer material, wherein dispersed within the polymer material is between 0.01
and 1 percent by weight of a particulate pigment having a mean diameter no more
than 500 nm, wherein the optical body exhibits a transmission of light within a
wavelength band of interest within the visible spectrum of from 5% to 90%,
wherein the dispersed particulate pigment imparts a substantial transmitted color to
10 the optical body, the optical body further comprising at least one dye added in an
amount sufficient to adjust the transmitted color of the optical body to a
substantially neutral gray.
2. The body of claim 1, wherein the optical body has an a^* value and a b^*
15 value in the range of ± 5 .
3. The body of claim 2, wherein the optical body has an a^* value and a b^*
value in the range of ± 3 .
- 20 4. The body of claim 3, wherein the optical body has an a^* value and a b^*
value in the range of ± 1 .
5. The body of claim 1, wherein the optical body has an a^* value and a b^*
value in the range of -1.5 ± 5 .
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6. The body of claim 5, wherein the optical body has an a^* value and a b^*
value in the range of -1.5 ± 3 .
7. The body of claim 6, wherein the optical body has an a^* value and a b^*
30 value in the range of -1.5 ± 1 .

8. The body of claim 1, wherein the particulate pigment has a mean diameter of no more than 300 nm.
9. The body of claim 8, wherein the particulate pigment has a mean diameter of no more than 100 nm.
10. The body of claim 1, wherein the body exhibits an internal haze of no more than 5%.
11. The body of claim 1, wherein the at least one dye is disposed in the at least one layer of thermoplastic polymer material.
12. The body of claim 1, wherein the at least one dye is co-polymerized in the polymer material.
13. The body of claim 1, wherein the at least one dye adjusts the transmitted color of the optical body by no more than 15 units of a^* and by no more than 15 units of b^* .
14. A pigmented optical body comprising at least one layer of a thermoplastic polymer material having dispersed therein a particulate pigment in an amount effective to produce a tint perceptible to an observer, wherein the optical body exhibits a transmission of light within a wavelength band of interest within the visible spectrum of from 5 to 90% and exhibits an internal haze of less than or equal to 5%, the optical body further comprising at least one dye in an amount effective to adjust the color of the optical body by no more than 15 units of a^* and by no more than 15 units of b^* .
15. The body of claim 14, wherein the body has a substantially neutral gray color.

16. The body of claim 15, wherein the body has an a* value and a b* value in the range of -1.5 ± 1 .
17. The body of claim 14, wherein the at least one layer is a single layer and the optical body consists essentially of the single layer.
18. The body of claim 14, wherein the particulate pigment has a mean diameter of no more than 500 nm.
19. The body of claim 14, wherein the at least one dye is disposed in the at least one layer of thermoplastic polymer material.
20. The body of claim 14, wherein the at least one dye is co-polymerized in the polymer material.
21. The body of either claim 1 or claim 14, wherein the body further comprises a rigid window member to which the at least one layer is laminated.